

CLAIMS

1. A terminal operation apparatus comprising at least one operating terminal and at least one operated terminal connected through a network, the operated terminal being remotely operated by the operating terminal,
5 wherein the operating terminal includes an input part provided with a pointing device and a sampling rate adjusting part for altering a sampling rate of point information inputted from the input part, and an amount of the point information transmitted to the network is adjusted by adjusting a sampling rate of the point information from the input part.

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2. A terminal operation apparatus according to claim 1, wherein the operating terminal includes a first timer for storing a first set time and a second timer for storing a second set time, the first timer counts an elapsed time from commencement of input of point information from the input part, the second timer counts an elapsed time from termination of input of point information from the input part, the sampling rate adjusting part adjusts the sampling rate as a first sampling rate within the first set time and adjusts the sampling rate as a second sampling rate after an elapse of the first set time, and the first timer is reset by an elapse of the second set time.

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3. A terminal operation apparatus according to claim 1, wherein the operating terminal includes a pointer movement speed detecting part for detecting a movement speed of a pointer from point information inputted from the input part, the sampling rate adjusting part adjusts the sampling rate as a first sampling rate if the detected pointer movement speed is equal to or lower than a set speed and adjusts the sampling rate as a second sampling rate if the pointer movement speed is higher than the set speed.

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4. A terminal operation apparatus according to claim 1, wherein the operated terminal includes a CPU use ratio detecting part for detecting a CPU use ratio, the sampling rate adjusting part adjusts the sampling rate as a first sampling

rate if the detected CPU use ratio is equal to or smaller than a predetermined level and adjusts the sampling rate as a second sampling rate if the detected CPU use ratio is larger than the predetermined level.

5 5. A terminal operation apparatus according to claim 1, wherein the operated terminal includes a display part to be the shared screen and sets a particular region on the shared screen of the display part, and the sampling rate adjusting part of the operating terminal alters and adjusts a sampling rate in accordance with a distance between a pointer displayed on the shared screen
10 and the particular region.

6. A terminal operation apparatus according to claim 1, wherein the operated terminal includes a priority setting part for setting priorities among the operating terminals, and the sampling rate adjusting part of the operating
15 terminal alters a sampling rate of point information in accordance with the set priority.

7. A terminal operation apparatus according to claim 6, wherein the priority setting part sets priorities among the operating terminals in accordance with
20 an order of connection to the operated terminal.

8. A terminal operation apparatus according to claim 6, wherein the operated terminal includes an operation authority setting part for setting an operation authority for preferentially conducting an operation of the operated terminal
25 with respect to the operating terminal, and the priority setting part sets higher priority with respect to a person holding an operation authority given by the operation authority setting part.

9. A terminal operation apparatus comprising at least one operating terminal
30 and at least one operated terminal connected through a network, the operated terminal being remotely operated by the operating terminal,
wherein the operated terminal includes a display part to be a shared

screen, the operating terminal includes an input part provided with a pointing device and a display part provided with a shared screen reduction displaying processing part for displaying an operated terminal operation area in which the shared screen of the operated terminal is displayed in a reduced size, in a
5 case where a pointer of the pointing device is outside of the operated terminal operation area, operation information by the pointing device is taken in as operation information with respect to the operating terminal, in a case where the pointer of the pointing device is in the operated terminal operation area, operation information by the pointing device is transmitted to the operated
10 terminal to remotely operate the operated terminal, and a relative position of the pointer in the operated terminal operation area is equal to a relative position of a pointer on the shared screen of the operated terminal.

10. A terminal operation apparatus according to claim 9, wherein, with
15 respect to a movement operation of the pointer by the pointing device of the operating terminal, a movement speed of the pointer on the display screen of the operating terminal is altered depending upon whether or not the pointer is in the operated terminal operation area.

20 11. A terminal operation apparatus according to claim 9, wherein the operating terminal includes a pointer retreat restriction part for restricting retreat of the pointer from the operated terminal operation area, and in a case of detecting a previously set event, the pointer retreat restriction part permits retreat of the pointer from the operated terminal operation area.

25 12. A terminal operation apparatus comprising at least one operating terminal and at least one operated terminal connected through a network, the operated terminal being remotely operated by the operating terminal,
wherein the operating terminal includes an input part provided with a
30 pointing device and a display part provided with an operated terminal inlet area, the operated terminal includes a display part to be a shared screen, the shared screen includes an operated terminal outlet area, the inlet area and

the outlet area are particular regions for generating an event for switching an operation target of the pointing device, in a case where a pointer enters the inlet area on the display screen of the operating terminal, operation information by the pointing device is transmitted to the operated terminal to 5 execute a remote operation of a pointer on the shared screen of the operated terminal, in a case where the pointer enters the outlet area on the shared screen of the operated terminal, the remote operation of the operated terminal is canceled, and operation information by the pointing device is taken in as operation information with respect to the operating terminal.

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13. A terminal operation apparatus according to claim 12, wherein the operating terminal and the operated terminal manage a file by relating it to a particular file identifier, when the file identifier is moved to the inlet area on the display screen of the operating terminal, the file is transmitted to the 15 operated terminal, and a file identifier corresponding to the file is displayed on the shared screen of the operated terminal.

14. A terminal operation apparatus according to claim 12, wherein a ratio of the inlet area occupying the display screen of the operating terminal and a 20 ratio of the outlet area occupying the shared screen of the operated terminal can be adjusted.

15. A terminal operation apparatus comprising at least one operating terminal and at least one operated terminal connected through a network, the 25 operated terminal being remotely operated by the operating terminal,

wherein the operating terminal includes an input part provided with a pointing device, the operated terminal includes a display part to be a shared screen and an operation authority setting part for setting an operation authority for preferentially conducting an operation of the operated terminal 30 with respect to the operating terminal, and cancellation of the set operation authority can be conducted by a particular operation of a pointer on the shared screen of the operated terminal.

16. A terminal operation apparatus according to claim 15, wherein the shared screen of the operated terminal includes an operation authority cancellation button region, and the operation authority is canceled by a pressing operation 5 of the operation authority cancellation button region by the pointer on the shared screen.

17. A terminal operation apparatus according to claim 15, wherein the operated terminal includes a pointer gesture analyzing part for analyzing 10 operation gesture based on a movement of the pointing device, and the gesture analyzing part analyzes gesture for instructing cancellation of an operation authority by an operation of the pointer on the shared screen of an operator, thereby canceling the operation authority.

15 18. A terminal operation apparatus according to claim 15, wherein the operated terminal includes a timer for storing a grace period until an operation authority is forcefully canceled, the timer counts an elapsed time after an input operation from the pointing device of the operating terminal holding an operation authority is terminated, and cancels the operation 20 authority if the grace period has elapsed.

19. A terminal operation apparatus according to claim 15, wherein the operating terminal includes a voice input apparatus and a voice analyzing part for analyzing human's voice input, input for instructing cancellation by 25 operator's voice from the voice input apparatus is analyzed by the voice analyzing part, and the operation authority can be canceled by notifying the operated terminal of cancellation of the operation authority.

30 20. A computer-readable recording medium storing a processing program for realizing a terminal operation apparatus that comprises at least one operating terminal and at least one operated terminal connected through a network, the operated terminal being remotely operated by the operating terminal,

the program including a point information input processing operation of receiving input of point information at the operating terminal and a sampling rate alteration processing operation of altering a sampling rate of the input point information, wherein the sampling rate of the input point 5 information is adjusted, whereby an amount of the point information transmitted to the network is adjusted.

21. A computer-readable recording medium storing a processing program for realizing a terminal operation apparatus that comprises at least one operating 10 terminal and at least one operated terminal connected through a network, the operated terminal being remotely operated by the operating terminal,

the program including: a point information input processing operation of receiving input of point information at the operating terminal; a processing operation of providing a display screen having an operated terminal operation 15 area as a display screen of the operating terminal; a processing operation of providing a shared screen of the operated terminal; a processing operation of, in a case where a pointer based on the input point information is outside of the operated terminal operation area, using the point information as operation information with respect to the operating terminal; a processing operation of, 20 in a case where the pointer based on the input point information is in the operated terminal operation area, transmitting the point information to the operated terminal to remotely operate the operated terminal; and a processing operation of displaying in such a manner that a relative position of the pointer in the operated terminal operation area is equal to a relative position of the 25 pointer in the shared screen of the operated terminal.

22. A computer-readable recording medium storing a processing program for realizing a terminal operation apparatus that comprises at least one operating terminal and at least one operated terminal connected through a network, the 30 operated terminal being remotely operated by the operating terminal,

the program including: a point information input processing operation of receiving input of point information at the operating terminal; a processing

operation of providing a display screen having an operated terminal inlet area as a display screen of the operating terminal; a processing operation of providing a shared screen of the operated terminal having an operated terminal outlet area; a processing operation of, in a case where a pointer

5 enters the inlet area on the display screen of the operating terminal, transmitting operation information by the pointing device to the operated terminal to execute a remote operation of a pointer on the shared screen of the operated terminal; and a processing operation of, in a case where the pointer enters the outlet area on the shared screen of the operated terminal, canceling

10 the remote operation of the operated terminal and taking in the operation information by the pointing device as operation information with respect to the operating terminal.

23. A computer-readable recording medium storing a processing program for

15 realizing a terminal operation apparatus that comprises at least one operating terminal and at least one operated terminal connected through a network, the operated terminal being remotely operated by the operating terminal,

 the program including: a point information input processing operation of receiving input of point information at the operating terminal; a processing

20 operation of providing a shared screen of the operated terminal; a processing operation of setting an operation authority for preferentially conducting an operation of the operated terminal with respect to the operating terminal; and a processing operation of canceling the set operation authority by a particular operation of a pointer on the shared screen of the operated terminal.